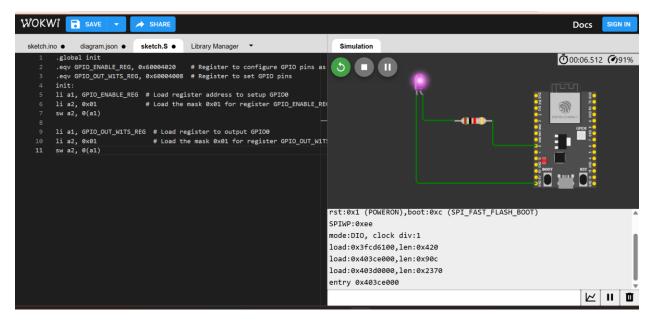
Student name: Lê Ngọc Anh Vũ

Student ID: 20236014

Lab 13

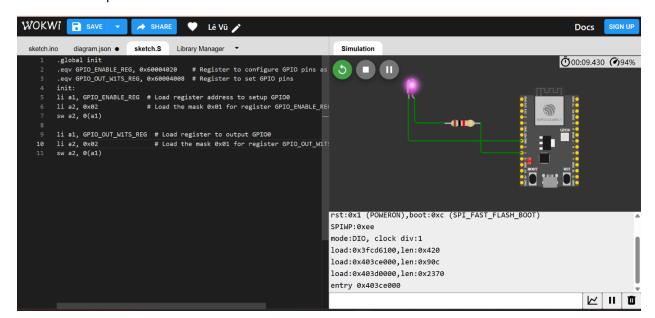
Assignment 1: Create a project to implement and test Home Assignment 1. Update the source code to test with other GPIO pins (GPIO2, GPIO3, GPIO4).

The result of implementing test Home Assignment 1:

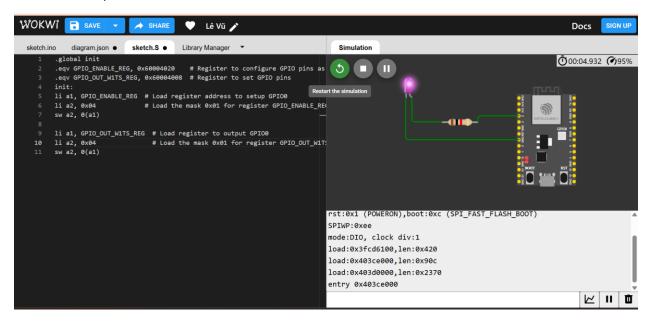


Update the source code to test with:

- GPIO1 pin:

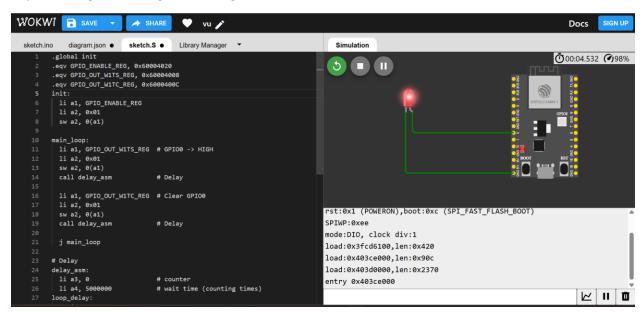


- GPIO2 pin:



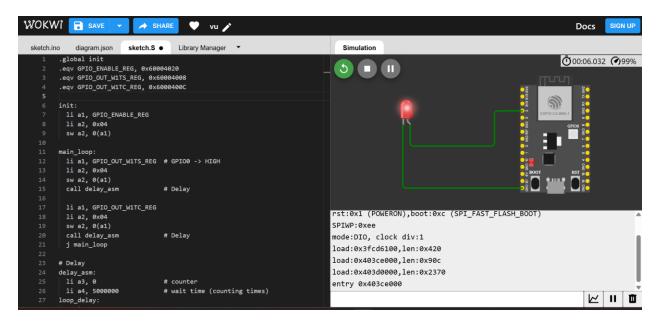
Assignment 2: Create a project to implement and test Home Assignment 2. Update the source code to test with other GPIO pins (GPIO2, GPIO3, GPIO4) and adjust the LED blinking duration.

Implementing and testing Home Assignment 2:

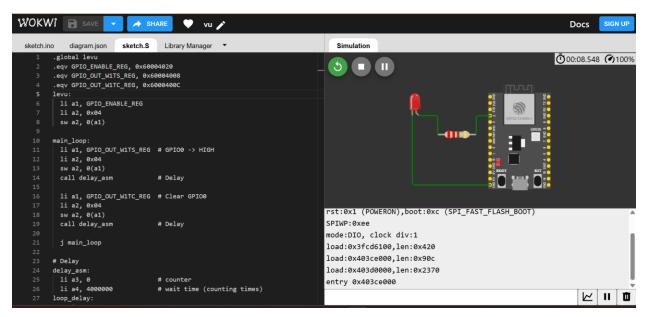


Update the source code to test with:

- GPIO2 pin:

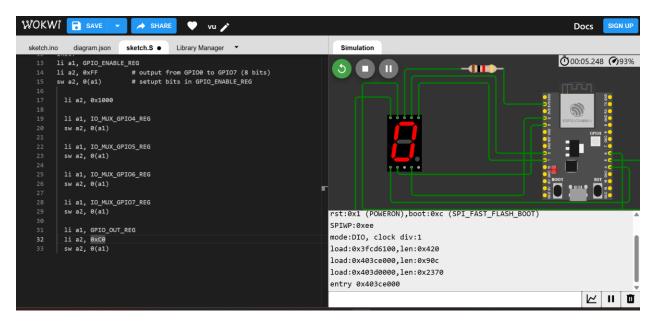


Adjusting the LED blinking duration:

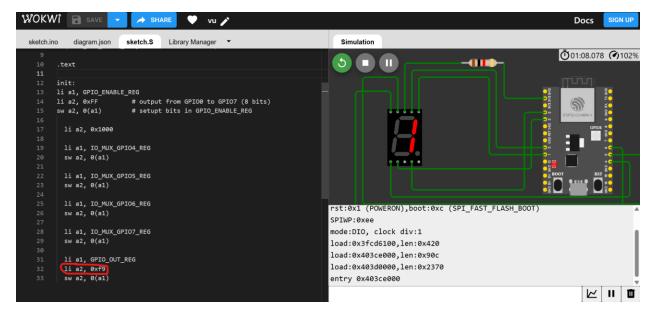


Assignment 3: Create a project to implement and test Home Assignment 3. Update the source code to display different digits (from 0 to 9).

Implementing and testing Home Assignment 3:



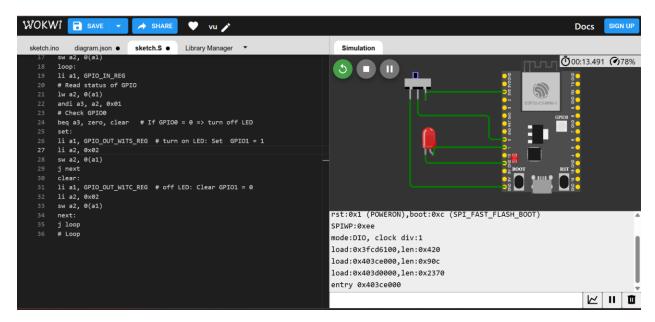
Update source code to display digit 1:



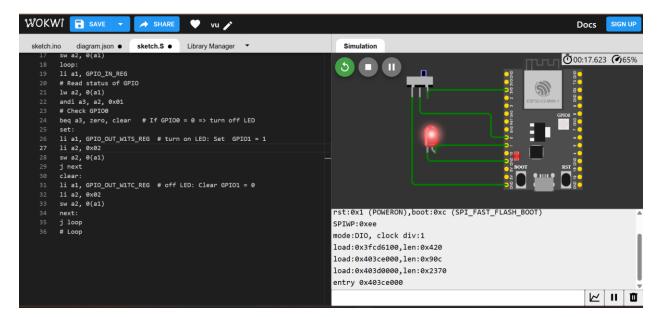
Assignment 4: Create a project to implement and test Home Assignment 4. Update the source code to use other GPIO pins (GPIO2, GPIO3, GPIO4) as signal input pins.

Implementing and testing Home Assignment 4:

- Turn off the LED:

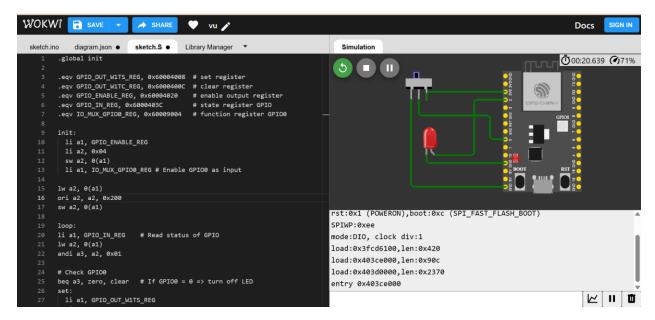


- Turn on the LED:

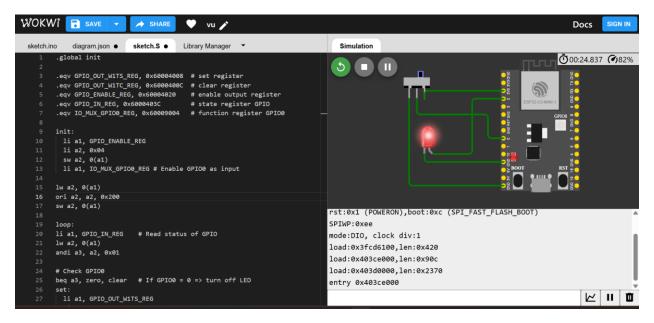


Update the source code to use GPIO2 pin:

- Turn off the LED:



- Turn on the LED:



Assignment 5: Create a project to implement a circuit that counts from 0 to 9 on a 7-segment LED display

Counting from 0 to 9:





